PALM INTRANET

Day : Tuesday
Date: 7/31/2007

Time: 15:10:26

Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.
Additionally, enter the **first few letters** of the Inventor's First name.

Last Name	**First Name**	
Schwartz	Pamela	Search

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Day : Tuesday
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Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.
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Last Name	**First Name**	
Waxman	David	Search

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Refine Search

Search Results -

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(11 AND 10).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
(L11 AND L10).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

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Search: L12

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Search History

DATE: Tuesday, July 31, 2007 Purge Queries Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=AND			
L12	L11 and L10	1	L12
L11	(coexpression) same (p35)	20	L11
L10	L5 not L6	316	L10
L9	L5 and (GDEPT)	6	L9
L8	L5 and (bystander adj cytotoxicity)	1	L8
L7	(enhanced adj bystander) same (antiapoptotic or p35 or Bcl-2)	1	L7
L6	L5 and (cytochrome adj P450)	33	L6
L5	L4 and (cancer or tumor or neoplastic)	349	L5
L4	L3 and (anti-apoptotic or bcl-2 or p35)	387	L4
L3	(Prolong or prolongation or enhance or enhancement or enhanced) same (transgene and expression)	3908	L3

L2	L1 and (anti-apoptotic or p35)	3	L2
L1	Waxman-David-J$.in.	7	L1

END OF SEARCH HISTORY

Welcome to DialogClassic Web(tm)

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Last logoff:  30jul07 14:44:30
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          *** ANNOUNCEMENTS ***
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***BIOSIS Previews Archive (File 552)
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***Engineering Index Backfile (File 988)
***Trademarkscan - South Korea (File 655)

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***File 141, Reader's Guide Abstracts
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***File 156, ToxFile
***Files 154 & 155, MEDLINE
***File 5, BIOSIS Previews - archival data added
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(File 302).
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File   1:ERIC 1965-2007/May
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      Set  Items  Description
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Cost is in DialUnits
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B 155, 159, 5, 73
       31jul07 15:11:10 User259876 Session D1028.1
            $0.97    0.278 DialUnits File1
     $0.97  Estimated cost File1
     $0.05  INTERNET
     $1.02  Estimated cost this search
     $1.02  Estimated total session cost   0.278 DialUnits

SYSTEM:OS  - DIALOG OneSearch
  File 155:MEDLINE(R) 1950-2007/Jul 30
         (c) format only 2007 Dialog
  File 159:Cancerlit 1975-2002/Oct
         (c) format only 2002 Dialog
 *File 159: Cancerlit is no longer updating.
Please see HELP NEWS159.
  File   5:Biosis Previews(R) 1926-2007/Jul W4
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 *File   5: BIOSIS has been enhanced with archival data. Please see
HELP NEWS 5 for information.
  File  73:EMBASE 1974-2007/Jul 25
        (c) 2007 Elsevier B.V.

      Set  Items  Description
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?

S (PROLONG OR PROLONGATION OR ENHANCE OR ENHANCEMENT OR ENHANCED) (S) (TRANSGENE AND
           34729  PROLONG
           73247  PROLONGATION
          313148  ENHANCE
          367910  ENHANCEMENT
          967932  ENHANCED
           61623  TRANSGENE
         2985863  EXPRESSION
      S1    6096  (PROLONG OR PROLONGATION OR ENHANCE OR ENHANCEMENT OR
                  ENHANCED) (S) (TRANSGENE AND EXPRESSION)
?

S S1 AND (ANTIAPOPTOTIC OR BCL-2 OR P35)
           6096  S1
          18078  ANTIAPOPTOTIC
          14698  BCL-2
           6124  P35
      S2     50  S1 AND (ANTIAPOPTOTIC OR BCL-2 OR P35)
?

S S2 AND (CANCER OR TUMOR OR NEOPLASTIC)
             50  S2
        2966293  CANCER
        2959147  TUMOR
         961611  NEOPLASTIC
      S3     12  S2 AND (CANCER OR TUMOR OR NEOPLASTIC)
?

RD
      S4      9  RD  (unique items)
?

T S4/3,K/ALL

  4/3,K/1     (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2007 Dialog. All rts. reserv.

15432719   PMID: 15618471
 Suppression of apoptosis by bcl-2 overexpression in lymphoid cells of
 transgenic zebrafish.
  Langenau David M; Jette Cicely; Berghmans Stephane; Palomero Teresa;
Kanki John P; Kutok Jeffery L; Look A Thomas
  Department of Pediatric Oncology, Dana-Farber Cancer Institute, Harvard
Medical School, Boston, MA 02115, USA.
  Blood (United States) Apr 15 2005, 105 (8) p3278-85, ISSN 0006-4971
--Print  Journal Code: 7603509
  Contract/Grant No.: 5T32HL07 623-17; HL; NHLBI; CA-06516; CA; NCI;
CA-68484; CA; NCI
  Publishing Model Print-Electronic
```

Document type: Journal Article; Research Support, Non-U.S. Gov't; Research Support, U.S. Gov't, P.H.S.
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

The zebrafish is an attractive vertebrate model for genetic studies of development, apoptosis, and cancer . Here we describe a transgenic zebrafish line in which T- and B-lymphoid cells express a fusion transgene that encodes the zebrafish bcl-2 protein fused to the enhanced green fluorescence protein (EGFP). Targeting EGFP-bcl-2 to the developing thymocytes of transgenic fish...

... cells, we compared the responsiveness of Myc-induced leukemias with and without EGFP-bcl-2 expression in living transgenic zebrafish. T-cell leukemias induced by the rag2-EGFP-Myc transgene were ablated by irradiation, whereas leukemias in double transgenic fish expressing both Myc and EGFP...

... modifier screens designed to identify genetic mutations or small molecules that modify bcl-2-mediated antiapoptotic pathways.

4/3,K/2 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2007 Dialog. All rts. reserv.

12833605 PMID: 10947939
Soluble biodegradable polymer-based cytokine gene delivery for cancer treatment.
Maheshwari A; Mahato R I; McGregor J; Han S o; Samlowski W E; Park J S; Kim S W
Center for Controlled Chemical Delivery, University of Utah, Salt Lake City, Utah 84112-5820, USA.
Molecular therapy - the journal of the American Society of Gene Therapy (UNITED STATES) Aug 2000, 2 (2) p121-30, ISSN 1525-0016--Print
Journal Code: 100890581
Publishing Model Print
Document type: Journal Article; Research Support, Non-U.S. Gov't
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

Soluble biodegradable polymer-based cytokine gene delivery for cancer treatment.
Transgene expression and tumor regression after direct injection of plasmid DNA encoding cytokine genes, such as mIL-12 and...
... this study is to develop nontoxic biodegradable polymer-based cytokine gene delivery systems, which should enhance mIL-12 expression , increasing the likelihood of complete tumor elimination. We synthesized poly[alpha-(4-aminobutyl)-l-glycolic acid] (PAGA), a biodegradable nontoxic polymer...

... for transfection into cultured CT-26 colon adenocarcinoma cells as well as into CT-26 tumor -bearing BALB/c mice. The in vitro and in vivo transfection efficiency was determined by...

... and p40), and reverse transcriptase-polymerase chain reaction (RT-PCR) (for Luc and mIL-12 p35). PAGA condensed and protected plasmids from nuclease degradation. The mean particle size and zeta potential...

... is in good agreement with RT-PCR data, which showed significant levels of mIL-12 p35 expression . The PAGA/pmIL-12 complexes did not induce any cytotoxicity in CT-26 cells as evidenced by 3- 4, 5-dimethylthiazol-2-yl -2,5-diphenyltetrazolium bromide assay and showed enhanced antitumor activity in vivo compared to naked pmIL-12. PAGA/pmIL-12 complexes are nontoxic and significantly enhance mIL-12 expression at mRNA and protein levels both in vitro and in vivo.
...; Reverse Transcriptase Polymerase Chain Reaction; Spectrometry, Mass, Matrix-Assisted Laser Desorption-Ionization; Time Factors; Transfection; Tumor Cells, Cultured

4/3,K/3 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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19160672 BIOSIS NO.: 200600506067
Expression of a COX-2 transgene in murine liver causes hepatitis, upregulation of inflammatory cytokines and induces cell apoptosis and proliferation
AUTHOR: Yu Jun; Chu Eagle Sh; Go Minnie Yy; Hui Alex Y; Chan Henry Ly; Leung Wai K; Sung Joseph Jy
JOURNAL: Gastroenterology 130 (4, Suppl. 2): pA833 APR 2006 2006
CONFERENCE/MEETING: Digestive Disease Week Meeting/107th Annual Meeting of the American-Gastroenterological-Association Los Angeles, CA, USA May 19 -24, 2006; 20060519
SPONSOR: Amer Gastroenterol Assoc Inst
ISSN: 0016-5085
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: year. COX2 mRNA and protein levels were determined by real time PCR and immunohistochemistry, respectively. Expression of inflammatory factors (TNF-alpha, IL-1beta, IL-6, IL-10, IL-12, TGF-beta ...
...inummohistochemistry. Results: In contrast to wild-type littermates, COX-2 transgenic mice exhibited strongly increased expression of COX-2 mRNA (9-folds increase) and protein. Elevated serum ALT level and histological...

...noted in these animals. No hepatitis was observed in wild-type mice. Hepatic COX-2- expression in the transgenic mice started an inflammatory cytokine cascade, a marked expression of the pro-inflammatory cytokines TNF-alpha (9.4-fold increase), IL-6 (4,4...

...1 +/- 7.1% vs 2.8 +/- 1.5% (control), mean +/- SD, P = 0.001) and enhanced expression of FasL and caspase3. Cell proliferation was also significantly increased in COX-2 transgenic mice...

...vs 08 +/- 0.4% (control), mean +/- SD, P = 0.001). Conclusion: These data indicate that enhanced COX-2 expression in hepatocytes is sufficient to induce hepatitis by stimulating the secretion of pro-inflammatory cytokines...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: Bcl-2 ...

...TNF-alpha { tumor necrosis factor-alpha...

4/3,K/4 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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17765946 BIOSIS NO.: 200400133300
Bcl-XL downregulation suppresses the tumorigenic potential of NPM/ALK in vitro and in vivo.
AUTHOR: Coluccia Addolorata M L (Reprint); Perego Silvia; Cleris Loredana; Gunby Rosalind H; Passoni Lorena; Marchesi Edoardo; Formelli Franca; Gambacorti-Passerini Carlo
AUTHOR ADDRESS: Department of Experimental Oncology, National Cancer Institute, Milan, Italy**Italy
JOURNAL: Blood 102 (11): p226a November 16, 2003 2003
MEDIUM: print
CONFERENCE/MEETING: 45th Annual Meeting of the American Society of Hematology San Diego, CA, USA December 06-09, 2003; 20031206
SPONSOR: American Society of Hematology
ISSN: 0006-4971
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: growth factor-independent proliferation and prolonging viability. Although NPM/ALK directly recruits and activates several antiapoptotic effectors, the precise molecular and therapeutic implication of their activation is mostly unknown. In the...

...in human ALCL-derived cells and in murine Ba/F3 lymphocytes following NPM/ALK ectopic expression . NPM/ALK also promoted the inactivating phosphorylation at serine 136 of the pro-apoptotic protein...

...These findings suggest that NPM/ALK delivers its anti-apoptotic potential through the modulation of expression levels of Bcl-XL and of its active/inactive conformational changes. To further confirm these...

...antisense cDNA caused approximately 40% of cell to develop apoptosis within 96 hours, and also enhanced susceptibility to further treatment with the genotoxic agent etoposide. To elucidate the relevance of Bcl...

...in vivo, Ba/F3-NPM/ALK+ cells expressing a doxycycline (Dox)-inducible Bcl-XL antisense transgene (pTet-ON) were injected intravenously or subcutaneously into syngenic mice. Doxycycline administration prevented the development...

...protein placed downstream of a known oncogene, can still result crucial for the survival of neoplastic cells in vitro and in vivo. Therefore, Bcl-XL deserves further investigation as possible therapeutic...
DESCRIPTORS:
...MAJOR CONCEPTS: Tumor Biology
...DISEASES: blood and lymphatic disease, immune system disease, neoplastic disease, drug therapy, genetics

4/3,K/5 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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16971617 BIOSIS NO.: 200200565128
Heme oxygenase 1 mediates the immunomodulatory and antiapoptotic effects of

interleukin 13 gene therapy in vivo and in vitro
AUTHOR: Ke Bibo; Shen Xiu-Da; Zhai Yuan; Gao Feng; Busuttil Ronald W; Volk Hans-Dieter; Kupiec-Weglinski Jerzy W (Reprint)
AUTHOR ADDRESS: Dumont-UCLA Transplant Center, 10833 Le Conte Avenue, Rm. 77-120 CHS, Los Angeles, CA, 90095, USA**USA
JOURNAL: Human Gene Therapy 13 (15): p1845-1857 October 10, 2002 2002
MEDIUM: print
ISSN: 1043-0342
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

Heme oxygenase 1 mediates the immunomodulatory and antiapoptotic effects of interleukin 13 gene therapy in vivo and in vitro

...ABSTRACT: 13 induction (determined by enzyme-linked immunosorbent assay and immunohistology) diminished intragraft apoptosis, and upregulated antiapoptotic A20 and antioxidant heme oxygenase 1 (HO-1). Ad-IL-13 plus regulatory cells synergistically...
...of cells positive by TUNEL (TdT (terminal deoxynucleotidyltransferase)-mediated dUTP nick-end labeling) assay, and enhanced cytoprotective gene expression . These findings correlated with in vitro studies in which Ad-IL-13 decreased tumor necrosis factor alpha (TNF-alpha)-mediated cytotoxicity, conferred resistance to apoptosis, and increased HO-1/A20 expression in human umbilical vein endothelial cell (HUVEC) cultures. However, inhibition of HO-1 after treatment with tin protoporphyrin reversed the immunomodulatory/ antiapoptotic effects of Ad-IL-13 both in vivo (infectious transplantation tolerance), and in vitro (HUVECs). Thus, by decreasing apoptosis/TNF-alpha-mediated cytotoxicity, and by facilitating induction of antiapoptotic /antioxidant molecules in HUVECs, this study documents the cytoprotective function of Ad-IL-13 in...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: ... antiapoptotic , upregulation...

... tumor necrosis factor-alpha

4/3,K/6 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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16130136 BIOSIS NO.: 200100301975
Bcl-2 overexpressing HeLa cells can delay but not overcome cell death after infection with the Semliki Forest Virus
AUTHOR: Gutjahr Thorsten S (Reprint); Kipps Thomas J (Reprint)
AUTHOR ADDRESS: Division of Hematology/Oncology, UCSD Gene Therapy Program, UCSD School of Medicine, La Jolla, CA, USA**USA
JOURNAL: Blood 96 (11 Part 2): p379b November 16, 2000 2000
MEDIUM: print
CONFERENCE/MEETING: 42nd Annual Meeting of the American Society of Hematology San Francisco, California, USA December 01-05, 2000; 20001201
SPONSOR: American Society of Hematology
ISSN: 0006-4971
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: We examined whether the cytopathic effect of SFV infection could be mitigated by high-level expression of the anti-apoptotic

protein, bcl-2. For this, we infected HeLa cells or HeLa...

...could generate daughter cells. We found that HeLa and HeLa-Bcl2 had similar levels of transgene expression immediately following infection with SFVhCD154. However, HeLa-Bcl12 were significantly more resistant to the immediate cytopathic effects of SFV infection, allowing for prolonged transgene expression as assessed by flow cytometry. Furthermore, we found significant differences between the cloning efficiencies for...

...that HeLa-Bcl2 could not generate progeny daughter cells following infection with SFV. We conclude expression of bcl-2 can prolong the survival of SFV-infected cells but is not sufficient to allow such cells to...

DESCRIPTORS:
...ORGANISMS: human cervical cancer cells...
CHEMICALS & BIOCHEMICALS: Bcl-2 ...

4/3,K/7 (Item 5 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
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14170706 BIOSIS NO.: 199799804766
Hypericin-induced apoptosis of human malignant glioma cells is light-dependent, independent of bcl-2 expression, and does not require wild-type p53
AUTHOR: Weller Michael (Reprint); Trepel Martin; Grimmel Cornelia; Schabet Martin; Bremen Dirk; Krajewski Stanislaw; Reed John C
AUTHOR ADDRESS: Neurol. Klinik, Univ. Tuebingen, Hoppe-Seyler-Str. 3, D-72076 Tuebingen, Germany**Germany
JOURNAL: Neurological Research 19 (5): p459-470 1997 1997
ISSN: 0161-6412
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: correlation between hypericin and tamoxifen-induced cytotoxicity and inhibition of protein kinase C (PKC). Ectopic expression of a murine bcl-2 transgene provides modest protection from tamoxifen but does not affect hypericin toxicity. Hypericin and tamoxifen do not modulate glioma cell killing induced by tumor necrosis factor-alpha (TNF-alpha) or CD95 ligand. Both drugs augment the acute cytotoxicity of various cancer chemotherapy drugs but fail to shift their EC-50 values in modified colony formation assays. These data do not provide further supportive evidence how to enhance the limited efficacy of tamoxifen treatment for human malignant glioma. However, hypericin is a promising...

DESCRIPTORS:
MISCELLANEOUS TERMS: ... BCL-2 ...

... NEOPLASTIC DISEASE...

... TUMOR BIOLOGY

4/3,K/8 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE
(c) 2007 Elsevier B.V. All rts. reserv.

14390818 EMBASE No: 2007136294
Overexpression of suppressor of cytokine signaling-3 in T cells exacerbates acetaminophen-induced hepatotoxicity
Numata K.; Kubo M.; Watanabe H.; Takagi K.; Mizuta H.; Okada S.; Kunkel S.L.; Ito T.; Matsukawa A.
Dr. A. Matsukawa, Department of Pathology and Experimental Medicine, Graduate School of Medical, Dentistry and Pharmaceutical Sciences, Okayama University, 2-5-1, Shikata, Okayama 700-8558 Japan
AUTHOR EMAIL: amatsu@md.okayama-u.ac.jp
Journal of Immunology (J. IMMUNOL.) (United States) 15 MAR 2007, 178/6 (3777-3785)
CODEN: JOIMA ISSN: 0022-1767
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 49

...in an exacerbated liver injury relative to the control. In SOCS3Tg mice, hepatocyte apoptosis was enhanced with decreased expression of antiapoptotic protein bcl-2, whereas hepatocyte proliferation was reduced with altered cell cycle-regulatory proteins. Levels...
...STATS activation was decreased in SOCS3Tg hepatocytes, an event that was associated with augmented SOCS3 expression in the hepatocytes. Altogether, these results suggest that forced expression of SOCS3 in T cells is deleterious in APAP hepatotoxicity by increasing STAT1 activation while...
DRUG DESCRIPTORS:
...endogenous compound--ec; regulator protein--endogenous compound--ec; stress activated protein kinase--endogenous compound--ec; tumor necrosis factor alpha--endogenous compound--ec

4/3,K/9 (Item 2 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2007 Elsevier B.V. All rts. reserv.

12402499 EMBASE No: 2003509470
Cyclin E and Bcl-xSUBL cooperatively induce cell cycle progression in c-RelSUP-/- B cells
Cheng S.; Hsia C.Y.; Leone G.; Liou H.-C.
H.-C. Liou, Weill Medical College, Cornell University, 515 East 71st Street, New York, NY 10021 United States
AUTHOR EMAIL: hcliou@med.cornell.edu
Oncogene (ONCOGENE) (United Kingdom) 20 NOV 2003, 22/52 (8472-8486)
CODEN: ONCNE ISSN: 0950-9232
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 79

...type B cells. BCR stimulation of c-relSUP-/- B cells fails to induce proper cyclin expression , resulting in GSUB1 phase arrest, but it is unclear whether these defects are in fact secondary events of decreased B-cell survival, since c-rel deletion also affects the expression of antiapoptotic genes such as bcl-xSUBL. Here, we use the bcl-xSUBL transgene to correct the viability of c-rel-deficient B cells, and show that the inhibition...
...overexpression, suggesting that c-Rel-associated cell cycle progression is dependent on more than just enhanced cell viability. Overexpression of cyclin E protein, however, can cooperate with Bcl-xSUBL to restore...

...is linked to a cyclin-dependent process, and suggest that c-Rel not only

```
activates  antiapoptotic  signaling but also the induction of cell cycle
progression.
MEDICAL DESCRIPTORS:
proto oncogene; gene overexpression; lymphatic system  tumor ; gene
deletion; lymphoproliferative disease; immune deficiency; cell
proliferation; signal transduction; wild type; lymphocyte activation; cell
...
SECTION HEADINGS:
  016   Cancer
  026  Immunology, Serology and Transplantation
  029  Clinical and Experimental Biochemistry
?


Set     Items   Description
S1       6096   (PROLONG OR PROLONGATION OR ENHANCE OR ENHANCEMENT OR ENHA-
            NCED) (S) (TRANSGENE AND EXPRESSION)
S2         50   S1 AND (ANTIAPOPTOTIC OR BCL-2 OR P35)
S3         12   S2 AND (CANCER OR TUMOR OR NEOPLASTIC)
S4          9   RD  (unique items)
?

S S2 MPT S3
>>>Term "MPT" in invalid position
?

S S2 NOT S3
              50  S2
              12  S3
      S5      38  S2 NOT S3
?

RD
      S6      25  RD  (unique items)
?


Set     Items   Description
S1       6096   (PROLONG OR PROLONGATION OR ENHANCE OR ENHANCEMENT OR ENHA-
            NCED) (S) (TRANSGENE AND EXPRESSION)
S2         50   S1 AND (ANTIAPOPTOTIC OR BCL-2 OR P35)
S3         12   S2 AND (CANCER OR TUMOR OR NEOPLASTIC)
S4          9   RD  (unique items)
S5         38   S2 NOT S3
S6         25   RD  (unique items)
?

S S6 NOT PY>2002
              25  S6
         7886179  PY>2002
      S7      17  S6 NOT PY>2002
?

T S7/3,K/ALL

  7/3,K/1     (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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13823535   PMID: 12096786
```

Genetically modified adenovirus vector containing an RGD peptide in the HI loop of the fiber knob improves gene transfer to nonhuman primate isolated pancreatic islets.

Bilbao Guadalupe; Contreras Juan L; Dmitriev Igor; Smyth Cheryl A; Jenkins Stacie; Eckhoff Devin; Thomas Francis; Thomas Judith; Curiel David T

Department of Medicine, University of Alabama at Birmingham 35294, USA.

American journal of transplantation - official journal of the American Society of Transplantation and the American Society of Transplant Surgeons (Denmark) Mar 2002, 2 (3) p237-43, ISSN 1600-6135--Print
Journal Code: 100968638
Publishing Model Print
Document type: Journal Article; Research Support, Non-U.S. Gov't
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

The ability to transfer immunoregulatory, cytoprotective, or antiapoptotic genes into pancreatic islets (PIs) may allow enhanced post-transplantation survival. The available gene transfer vectors differ greatly in their ability to infect...

... with AdGFP).More than 90% of the infected cells were insulin-producing cells. Significantly higher transgene expression was demonstrated after infection with AdRGDLuc compared with AdLuc at different titers. Analysis of the...

... about the possibility of tropism modification of Ad vectors to increase the transfection efficiency and transgene expression to isolated PI. Incorporation of the RGD sequence in the HI loop of the fiber...

7/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155:MEDLINE(R)
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13649288 PMID: 11863415

Prolongation of transgene expression by coexpression of cytokine response modifier a in rodent liver after adenoviral gene transfer.

Li Xiao-Kang; Kosuga Motomichi; Tokieda Keisuke; Kanaji Arihiko; Fukuhara Yasuyuki; Hashimoto Mitsuhiro; Okabe Keiko; Yaginuma Hiroyuki; Yamada Masao ; Suzuki Seiichi; Okuyama Torayuki

Department of Experimental Surgery, National Children's Medical Research Center, Tokyo 154-8509, Japan.

Molecular therapy - the journal of the American Society of Gene Therapy (United States) Mar 2002, 5 (3) p262-8, ISSN 1525-0016--Print
Journal Code: 100890581
Publishing Model Print
Document type: Journal Article; Research Support, Non-U.S. Gov't
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

Prolongation of transgene expression by coexpression of cytokine response modifier a in rodent liver after adenoviral gene transfer.

... that transgene expression after administration of E1-deleted adenovirus is prolonged by coexpression of the antiapoptotic protein CrmA.

7/3,K/3 (Item 3 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2007 Dialog. All rts. reserv.

13135763 PMID: 11246870
Efficient ex vivo transduction of pancreatic islet cells with recombinant adeno-associated virus vectors.
Flotte T; Agarwal A; Wang J; Song S; Fenjves E S; Inverardi L; Chesnut K; Afione S; Loiler S; Wasserfall C; Kapturczak M; Ellis T; Nick H; Atkinson M
Genetics Institute, the Powell Gene Therapy Center, and the Department of Pediatrics, University of Florida, Gainesville 32610, USA.
Diabetes (United States) Mar 2001, 50 (3) p515-20, ISSN 0012-1797--Print Journal Code: 0372763
Contract/Grant No.: DK-51809; DK; NIDDK; HL-59412; HL; NHLBI
Publishing Model Print
Document type: Journal Article; Research Support, Non-U.S. Gov't; Research Support, U.S. Gov't, P.H.S.
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

The ability to transfer immunoregulatory, cytoprotective, or antiapoptotic genes into pancreatic islet cells may allow enhanced posttransplantation survival of islet allografts and inhibition of recurrent autoimmune destruction of these cells in type 1 diabetes. However, transient transgene expression and the tendency to induce host inflammatory responses have limited previous gene delivery studies using...

... multiplicity of infection of 100. Although adenovirus (Ad) coinfection was required for efficient ex vivo expression at early time points, islets transduced without Ad expressed efficiently when they were transplanted under...

...useful tool to deliver therapeutic genes for modulating immune responses against islet cells and markedly enhance longterm graft survival.

7/3,K/4 (Item 4 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2007 Dialog. All rts. reserv.

12719640 PMID: 10811865
Protein kinase B regulates T lymphocyte survival, nuclear factor kappaB activation, and Bcl-X(L) levels in vivo.
Jones R G; Parsons M; Bonnard M; Chan V S; Yeh W C; Woodgett J R; Ohashi P S
Department of Medical Biophysics, Ontario Cancer Institute, University of Toronto, Toronto, Ontario M5G 2M9, Canada.
Journal of experimental medicine (UNITED STATES) May 15 2000, 191 (10) p1721-34, ISSN 0022-1007--Print Journal Code: 2985109R
Publishing Model Print
Document type: In Vitro; Journal Article; Research Support, Non-U.S. Gov't
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... T lymphocyte survival. Thymocytes and mature T cells overexpressing gag-PKB displayed increased active PKB, enhanced viability in culture, and resistance to a variety of apoptotic stimuli. PKB activity prolonged

the...
... PKB can be activated in response to TCR stimulation, and peptide-antigen-specific proliferation is enhanced in T cells expressing the gag-PKB transgene . Both thymocytes and T cells overexpressing gag-PKB displayed elevated levels of the antiapoptotic molecule Bcl-X(L). In addition, the activation of peripheral T cells led to enhanced nuclear factor (NF)-kappaB activation via accelerated degradation of the NF-kappaB inhibitory protein IkappaBalpha...

7/3,K/5 (Item 5 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2007 Dialog. All rts. reserv.

12301967 PMID: 9973461
Regulation of cell survival during B lymphopoiesis: apoptosis and Bcl-2/Bax content of precursor B cells in bone marrow of mice with altered expression of IL-7 and recombinase-activating gene-2.
Lu L; Chaudhury P; Osmond D G
Department of Anatomy and Cell Biology, McGill University, Montreal, Canada.
Journal of immunology (Baltimore, Md. - 1950) (UNITED STATES) Feb 15 1999, 162 (4) p1931-40, ISSN 0022-1767--Print Journal Code: 2985117R
Publishing Model Print
Document type: Journal Article; Research Support, Non-U.S. Gov't
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... the apoptotic rates of precursor B cells, but not of more mature B cells, are enhanced by IL-7 gene deletion, associated with increased intracellular content of Bax and decreased Bcl-2, while, conversely, an IL-7 transgene suppresses precursor B cell apoptosis and produces low Bax and high Bcl-2 levels. During...
... 35%). The results demonstrate that IL-7 strongly promotes in vivo cell survival and maintains antiapoptotic Bcl-2/Bax ratios during the development of precursor B cells in mouse bone marrow.

7/3,K/6 (Item 6 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2007 Dialog. All rts. reserv.

10461095 PMID: 7753817
bcl-2 transgene expression can protect neurons against developmental and induced cell death.
Farlie P G; Dringen R; Rees S M; Kannourakis G; Bernard O
Walter and Eliza Hall Institute of Medical Research, Royal Melbourne Hospital, Victoria, Australia.
Proceedings of the National Academy of Sciences of the United States of America (UNITED STATES) May 9 1995, 92 (10) p4397-401, ISSN 0027-8424 --Print Journal Code: 7505876
Publishing Model Print
Document type: Journal Article; Research Support, Non-U.S. Gov't
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

...mice expressing Bcl-2 under the control of the neuron-specific enolase promoter, which forced expression uniquely in neurons. Sensory neurons

isolated from dorsal root ganglia of newborn mice normally require...

... factor for their survival in culture, but those from the bcl-2 transgenic mice showed enhanced survival in its absence. Furthermore, apoptotic death of motor neurons after axotomy of the sciatic...

... from the central and peripheral nervous system was increased by 30%, indicating that Bcl-2 expression can protect neurons from cell death during development. The generation of these transgenic mice suggests...
Gene Symbol: BCL2; bcl-2

7/3,K/7 (Item 7 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2007 Dialog. All rts. reserv.

10059011 PMID: 8195708
Interleukin 7-dependent B lymphocyte precursor cells are ultrasensitive to apoptosis.
Griffiths S D; Goodhead D T; Marsden S J; Wright E G; Krajewski S; Reed J C; Korsmeyer S J; Greaves M
Leukaemia Research Fund Centre, Institute of Cancer Research, London, United Kingdom.
Journal of experimental medicine (UNITED STATES) Jun 1 1994, 179 (6) p1789-97, ISSN 0022-1007--Print Journal Code: 2985109R
Publishing Model Print
Document type: Comparative Study; Journal Article; Research Support, Non-U.S. Gov't
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... with mature splenic B cells and their resistance to x-rays and corticosteroid could be enhanced by expression of a BCL-2 transgene . These data have important implications for normal lymphopoiesis and for the behavior of leukemic lymphoid...
Gene Symbol: BCL-2

7/3,K/8 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2007 The Thomson Corporation. All rts. reserv.

16958265 BIOSIS NO.: 200200551776
Hepatocyte growth factor gene therapy retards the progression of chronic obstructive nephropathy
AUTHOR: Gao Xiaojie; Mae Hiromu; Ayabe Nobuhiko; Takai Toru; Oshima Keisuke ; Hattori Masuji; Ueki Takahiro; Fujimoto Jiro; Tanizawa Takakuni (Reprint)
AUTHOR ADDRESS: Department of Pediatrics, Hyogo College of Medicine, 1-1 Mukogawacho, Nishinomiya, Hyogo, 663-8501, Japan**Japan
JOURNAL: Kidney International 62 (4): p1238-1248 October, 2002 2002
MEDIUM: print
ISSN: 0085-2538
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: using liposomes containing the hemagglutinating virus of Japan (HVJ liposome) was tested on UUO rats. Expression of HGF and c-Met were

examined by in situ hybridization, ELISA, or immunohistochemical staining ...

...activated while apoptosis was inhibited, especially at the late stage of UUO. Bcl-2 was enhanced in the HGF-transfected UUO rats, while no changes of Bcl-xL and Bax were...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: ... Bcl-2

7/3,K/9 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2007 The Thomson Corporation. All rts. reserv.

16791635 BIOSIS NO.: 200200385146
APRIL modulates B and T cell immunity
AUTHOR: Stein Jens V; Lopez-Fraga Marta; Elustondo Fernando A; Carvalho-Pinto Carla E; Rodriguez Dolores; Gomez-Caro Ruth; de Jong Joan; Martinez-A Carlos; Medema Jan Paul; Hahne Michael (Reprint)
AUTHOR ADDRESS: Department of Immunology and Oncology, Centro Nacional de Biotecnologia, Campus de Cantoblanco, Universidad Autonoma, E-28049, Madrid, Spain**Spain
JOURNAL: Journal of Clinical Investigation 109 (12): p1587-1598 June, 2002 2002
MEDIUM: print
ISSN: 0021-9738
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: less well defined. Analysis of T cells revealed an activation-dependent increase in APRIL mRNA expression . We therefore generated mice expressing APRIL as a transgene in T cells. These mice appeared normal and showed no signs of B cell hyperplasia. Transgenic T cells revealed a greatly enhanced survival in vitro as well as enhanced survival of staphylococcal enterotoxin B-reactive CD4+ T cells in vivo, which both directly correlate...

...not IgG responses. In contrast, T cell-independent type 2 (TI-2) humoral response was enhanced in APRIL transgenic mice. As TACI was previously reported to be indispensable for TI-2...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: ... Bcl-2

7/3,K/10 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2007 The Thomson Corporation. All rts. reserv.

16723323 BIOSIS NO.: 200200316834
Bax is not the heterodimerization partner necessary for sustained anti-photoreceptor-cell-death activity of Bcl-2
AUTHOR: Eversole-Cire Pamela; Chen Jeannie; Simon Melvin I (Reprint)
AUTHOR ADDRESS: Division of Biology, California Institute of Technology, 147-75, Pasadena, CA, 91125, USA**USA
JOURNAL: IOVS 43 (5): p1636-1644 May, 2002 2002
MEDIUM: print
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: Purpose. Ectopic expression of Bcl-2 in photoreceptors of certain mouse models of retinitis pigmentosa (RP) temporarily slows...

...Bax and Bcl-2 specifically in photoreceptor cells, using the murine opsin promoter to drive transgene expression . These mice were crossed with an adRP mouse model to assess the effect of coexpression...

...was performed on retinas isolated at various developmental times to monitor disease progression. Results. Ectopic expression of Bax in photoreceptors resulted in extensive rod cell death dependent on the level of Bax transgene expression . Although Bcl-2 was able to inhibit Bax-induced photoreceptor cell death, the coexpression of Bcl-2 and Bax in photoreceptors of mice with adRP did not enhance the protective effect against photoreceptor cell death exerted by Bcl-2 alone. Conclusions. Coexpression of...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: ... Bcl-2

7/3,K/11 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2007 The Thomson Corporation. All rts. reserv.

15856906 BIOSIS NO.: 200100028745
Bromocriptine restores tolerance in estrogen-treated mice
AUTHOR: Peeva Elena; Grimaldi Christine; Spatz Linda; Diamond Betty (Reprint)
AUTHOR ADDRESS: Department of Microbiology and Immunology, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY, 10461, USA**USA
JOURNAL: Journal of Clinical Investigation 106 (11): p1373-1379 December, 2000 2000
MEDIUM: print
ISSN: 0021-9738
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: treatment with estradiol alone. However, mice treated with estradiol plus bromocriptine showed an expansion of transgene -expressing B cells and enhanced Bcl-2 expression , similar to those of estradiol-treated mice. We identified anergic high-affinity anti-DNA B ...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: Bcl-2 ...

7/3,K/12 (Item 5 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2007 The Thomson Corporation. All rts. reserv.

15603356 BIOSIS NO.: 200000321669
Synergistic effect of Bcl-2 and BAG-1 on the prevention of photoreceptor cell death
AUTHOR: Eversole-Cire Pamela; Concepcion Francis A; Simon Melvin I (Reprint); Takayama Shinichi; Reed John C; Chen Jeannie
AUTHOR ADDRESS: Division of Biology, California Institute of Technology, Pasadena, CA, 91125, USA**USA
JOURNAL: IOVS 41 (7): p1953-1961 June, 2000 2000
MEDIUM: print

DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: PURPOSE: Ectopic expression of Bcl-2 in photoreceptors of mice with retinal degenerative disease slows progression of the...

...in the photoreceptors of mice with an autosomal dominant form of retinitis pigmentosa (RP) would enhance the protective effect provided by Bcl-2 alone. METHODS: An expression vector using the 5' regulatory region of the murine opsin gene was used to target the expression of BAG-1 specifically to photoreceptor cells of mice. The BAG-1 transgenic mice were...

...at various times after birth to monitor disease progression. RESULTS: High levels of BAG-1 expression resulted in retinal degeneration that was not prevented by Bcl-2 expression . However, coexpression of appropriate levels of BAG-1 and Bcl-2 was found to have a profound inhibitory effect on retinal degeneration caused by overexpression of a mutant rhodopsin transgene . Whereas expression of Bcl-2 alone was previously found to delay degeneration of the retina from 2...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: ... Bcl-2

7/3,K/13 (Item 6 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2007 The Thomson Corporation. All rts. reserv.

15411749 BIOSIS NO.: 200000130062
bcl-2 transgene expression inhibits apoptosis in the germinal center and reveals differences in the selection of memory B cells and bone marrow antibody-forming cells
AUTHOR: Smith Kenneth G C; Light Amanda; O'Reilly Lorraine A; Ang Soon-Meng ; Strasser Andreas; Tarlinton David (Reprint)
AUTHOR ADDRESS: Walter and Eliza Hall Institute, PO Royal Melbourne Hospital, Melbourne, VIC, 3050, Australia**Australia
JOURNAL: Journal of Experimental Medicine 191 (3): p475-484 Feb. 7, 2000 2000
MEDIUM: print
ISSN: 0022-1007
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: antigen-specific B cells in mice expressing the cell death inhibitor bcl-2 as a transgene . Such mice had reduced apoptosis in germinal centers and an excessive number of memory B...

...frequency of V gene somatic mutation, including those mutations encoding amino acid exchanges known to enhance affinity. Despite the frequency of AFCs being increased in bcl-2-transgenic mice, the fraction...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: BCL-2 ...

7/3,K/14 (Item 7 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2007 The Thomson Corporation. All rts. reserv.

15370610 BIOSIS NO.: 200000088923
Constitutive Bcl-2 expression throughout the hematopoietic compartment affects multiple lineages and enhances progenitor cell survival
AUTHOR: Ogilvy Sarah; Metcalf Donald; Print Cristin G; Bath Mary L; Harris Alan W; Adams Jerry M (Reprint)
AUTHOR ADDRESS: Walter and Eliza Hall Institute of Medical Research, Royal Melbourne Hospital, Post Office, Melbourne, VIC, 3050, Australia** Australia
JOURNAL: Proceedings of the National Academy of Sciences of the United States of America 96 (26): p14943-14948 Dec. 21, 1999 1999
MEDIUM: print
ISSN: 0027-8424
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: in hematopoiesis. To evaluate the impact of its ubiquitous overexpression within this system, we targeted expression of the human bcl-2 gene in mice by using the promoter of the vav gene, which is active throughout this compartment but rarely outside it. The vav-bcl-2 transgene was expressed in essentially all nucleated cells of hematopoietic tissues but not notably in nonhematopoietic tissues. Presumably because of enhanced cell survival, the mice displayed increases in myeloid cells as well as a marked elevation...

...2 on cell cycling in specific lineages. After irradiation or factor deprivation, Bcl-2 markedly enhanced clonogenic survival of all tested progenitor and preprogenitor cells. Thus, Bcl-2 has multiple effects...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: Bcl-2 ...

7/3,K/15 (Item 8 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2007 The Thomson Corporation. All rts. reserv.

14212201 BIOSIS NO.: 199800006448
Enforced bcl-2 expression inhibits antigen-mediated clonal elimination of peripheral B cells in an antigen dose-dependent manner and promotes receptor editing in autoreactive, immature B cells
AUTHOR: Lang Julie; Arnold B; Hammerling G; Harris Alan W; Korsmeyer Stanley; Russell David; Strasser Andreas; Nemazee David (Reprint)
AUTHOR ADDRESS: Dep. Pediatrics, Natl. Jewish Med. Res. Cent., 1400 Jackson St., Denver, CO 80206, USA**USA
JOURNAL: Journal of Experimental Medicine 186 (9): p1513-1522 Nov. 3, 1997 1997
MEDIUM: print
ISSN: 0022-1007
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: we used Emu-bcl-2-22 transgenic (Tg) mice to test the prediction that enforced expression of the Bcl-2 apoptotic inhibitor in B cells would rescue mature, but not miniature...

...mudelta (anti-Kk,b) Ig Tg mice to H-2b mice or to mice expressing transgene -driven Kb in the periphery. In 3-83 mudelta/bcl-2 Tg mice, deletion of autoreactive B cells induced by peripheral Kb antigen expression in the liver (MT-Kb Tg) or epithelia (KerIV-Kb Tg), was

partly or completely...

...self-tolerance, Bcl-2 overexpression failed to inhibit central tolerance induced by bone marrow antigen expression , but instead, enhanced the receptor editing process. These studies indicate that apoptosis plays distinct roles in central and...
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: Bcl-2 ...

7/3,K/16 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2007 Elsevier B.V. All rts. reserv.

10531239 EMBASE No: 1999415847
Ectopic expression of human p53 inhibits entry into S phase and induces apoptosis in the Drosophila eye imaginal disc
Yamaguchi M.; Hirose F.; Inoue Y.H.; Shiraki M.; Hayashi Y.; Nishi Y.; Matsukage A.
M. Yamaguchi, Laboratory of Cell Biology, Aichi Cancer Center Research Inst., Chikusa-ku, Nagoya 464-8681 Japan
Oncogene (ONCOGENE) (United Kingdom) 18 NOV 1999, 18/48 (6767-6775)
CODEN: ONCNE ISSN: 0950-9232
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 46

Transgenic flies in which ectopic expression of human p53 was targeted to the Drosophila eye imaginal disc were established. On sectioning...

...In the developing eye imaginal disc, photoreceptor cell differentiation was initiated normally despite the ectopic expression of p53. However, expression of p53 inhibited cell cycle progression in eye imaginal disc cells and the S phase zone (the second mitotic wave) behind the morphogenetic furrow was almost completely abolished. Furthermore, expression of p53 induced extensive apoptosis of eye imaginal disc cells, and co- expression of baculovirus P35 in the eye imaginal disc suppressed the p53-induced rough eye phenotype. These results are...

...of Drosophila deficiency stocks allowed us to identify several genomic regions, deletions of which caused enhancement or suppression of the p53-induced rough eye phenotype. The transgenic flies established in this ...

7/3,K/17 (Item 2 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2007 Elsevier B.V. All rts. reserv.

07762969 EMBASE No: 1999245806
Adenovirus-mediated gene expression in vivo is enhanced by the antiapoptotic Bcl-2 gene
Bilbao G.; Contreras J.L.; Zhang H.-G.; Pike M.J.; Overturf K.; Mikheeva G.; Krasnykh V.; Curiel D.T.
D.T. Curiel, Gene Therapy Center, 1824 6th Ave. South, Birmingham, AL 35294 United States
AUTHOR EMAIL: david.curiel@ccc.uab.edu
Journal of Virology (J. VIROL.) (United States) 1999, 73/8 (6992-7000)
CODEN: JOVIA ISSN: 0022-538X
DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 81

Adenovirus-mediated gene expression in vivo is enhanced by the antiapoptotic Bcl-2 gene

An adenovirus vector encoding the human Bcl-2 gene (hBcl-2) was derived. In vivo expression of hBcl-2 in murine livers enhanced and prolonged adenovirus-mediated gene expression . Furthermore, in the hBcl-2-treated group a significant reduction in the apoptosis induced by the adenovirus vector was observed. Thus, the cytoprotection of the vector-infected cells with antiapoptotic genes appears promising for successful in vivo gene therapy.
?

```
Set     Items   Description
S1       6096   (PROLONG OR PROLONGATION OR ENHANCE OR ENHANCEMENT OR ENHA-
            NCED) (S) (TRANSGENE AND EXPRESSION)
S2         50   S1 AND (ANTIAPOPTOTIC OR BCL-2 OR P35)
S3         12   S2 AND (CANCER OR TUMOR OR NEOPLASTIC)
S4          9   RD  (unique items)
S5         38   S2 NOT S3
S6         25   RD  (unique items)
S7         17   S6 NOT PY>2002
?

S (ENHANCED (W) BYSTANDER) (S) (ANTIAPOPTOTIC OR P35 OR BCL-2)
          967932  ENHANCED
           10862  BYSTANDER
           18078  ANTIAPOPTOTIC
            6124  P35
           14698  BCL-2
      S8       3  (ENHANCED (W) BYSTANDER) (S) (ANTIAPOPTOTIC OR P35 OR
                  BCL-2)
?

RD
      S9       1  RD  (unique items)
?

T S9/3,K/ALL
```

9/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)
(c) format only 2007 Dialog. All rts. reserv.

14044483 PMID: 12460909

Enhanced bystander cytotoxicity of P450 gene-directed enzyme prodrug therapy by expression of the antiapoptotic factor p35.

Schwartz Pamela S; Chen Chong-Sheng; Waxman David J
Division of Cell and Molecular Biology, Department of Biology, Boston University, Boston, Massachusetts 02215, USA.

Cancer research (United States) Dec 1 2002, 62 (23) p6928-37, ISSN 0008-5472--Print Journal Code: 2984705R
Contract/Grant No.: CA49248; CA; NCI
Publishing Model Print
Document type: Journal Article; Research Support, U.S. Gov't, P.H.S.
Languages: ENGLISH
Main Citation Owner: NLM

```
  Record type: MEDLINE; Completed

 ...bystander cytotoxicity of P450 gene-directed enzyme prodrug therapy by
 expression of the antiapoptotic factor  p35 .
?


Set     Items   Description
S1       6096   (PROLONG OR PROLONGATION OR ENHANCE OR ENHANCEMENT OR ENHA-
            NCED) (S) (TRANSGENE AND EXPRESSION)
S2         50   S1 AND (ANTIAPOPTOTIC OR BCL-2 OR P35)
S3         12   S2 AND (CANCER OR TUMOR OR NEOPLASTIC)
S4          9   RD  (unique items)
S5         38   S2 NOT S3
S6         25   RD  (unique items)
S7         17   S6 NOT PY>2002
S8          3   (ENHANCED (W) BYSTANDER) (S) (ANTIAPOPTOTIC OR P35 OR BCL--
             2)
S9          1   RD  (unique items)
?

S (BYSTANDER (W) (CYTOTOXICITY OR EFFECT)) AND (ANTIAPOPTOTIC OR P35 OR BCL-2)
           10862  BYSTANDER
          297735  CYTOTOXICITY
         5805694  EFFECT
            3632  BYSTANDER(W)(CYTOTOXICITY OR EFFECT)
           18078  ANTIAPOPTOTIC
            6124  P35
           14698  BCL-2
     S10      28  (BYSTANDER (W) (CYTOTOXICITY OR EFFECT)) AND
                  (ANTIAPOPTOTIC OR P35 OR BCL-2)
?

S S10 AND (VECTOR OR GDEPT)
              28  S10
          356532  VECTOR
             340  GDEPT
     S11       7  S10 AND (VECTOR OR GDEPT)
?

RD
     S12       5  RD  (unique items)
?

T S12/3,K/ALL

  12/3,K/1      (Item 1 from file: 5)
DIALOG(R)File   5:Biosis Previews(R)
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17435043   BIOSIS NO.: 200300393473
 Methioninase gene therapy with selenomethionine induces apoptosis in
 bcl-2-overproducing lung cancer cells.
AUTHOR: Yamamoto Norio; Gupta Anshu; Xu Mingxu; Miki Kenji; Tsujimoto
  Yoshihide; Tsuchiya Hiroyuki; Tomita Katsuro; Moossa A R; Hoffman R M
  (Reprint)
AUTHOR ADDRESS: AntiCancer, Inc., 7917 Ostrow Street, San Diego, CA, 92111,
  USA**USA
AUTHOR E-MAIL ADDRESS: all@anticancer.com
JOURNAL: Cancer Gene Therapy  10 (6): p445-450 June 2003 2003
```

MEDIUM: print
ISSN: 0929-1903 _(ISSN print)
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: and thereby apoptosis. However, gene therapy strategies are less effective if tumor cells overexpress the antiapoptotic mitochondrial protein bcl-2. In this study, we investigated whether rAdMET/SeMET was effective against...
...fragmentation of nuclei, and release of cytochrome c from mitochondria to the cytosol. A strong bystander effect of AdMET/SeMET was observed on A549 cells as well as the bcl-2-overproducing...
DESCRIPTORS:
...ORGANISMS: gene vector ;
CHEMICALS & BIOCHEMICALS: bcl-2 ...
MISCELLANEOUS TERMS: ... bystander effect

12/3,K/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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16364823 BIOSIS NO.: 200100536662
Fas ligand/Fas-mediated apoptosis in human coronary artery smooth muscle cells: Therapeutic implications of fratricidal mode of action
AUTHOR: Belanger Adam J; Scaria Abraham; Lu Hsienwie; Sullivan Jennifer A; Cheng Seng H; Gregory Richard J; Jiang Canwen (Reprint)
AUTHOR ADDRESS: Genzyme Corporation, 31 New York Avenue, Framingham, MA, 01701, USA**USA
JOURNAL: Cardiovascular Research 51 (4): p749-761 September, 2001 2001
MEDIUM: print
ISSN: 0008-6363
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: and target cells were in close physical contact. FasL/Fas-mediated apoptosis was inhibited by p35 , a baculovirus gene that inhibits caspases. Additionally, in contrast to HCASM cells, neither membrane-bound...

...that HCASM cells transduced in vivo with FasL may serve as "scavengers" and exert a bystander effect on surrounding cells that may be enhanced by co-expression of p35 . As FasL-mediated apoptosis occurs in coronary arterial smooth muscle but not endothelial cells, FasL...
DESCRIPTORS:
...ORGANISMS: gene vector ;
GENE NAME: baculovirus p35 gene (Baculoviridae...

12/3,K/3 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE
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14245739 EMBASE No: 2006086266
In vitro efficacy of AdTRAIL gene therapy of bladder cancer is enhanced by trichostatin A-mediated restoration of CAR expression and downregulation of cFLIP and Bcl-XSUBL
El-Zawahry A.; Lu P.; White S.J.; Voelkel-Johnson C.

Dr. C. Voelkel-Johnson, Department of Microbiology and Immunology, Medical University of SC, 173 Ashley Ave, Charleston, SC 29403 United States
AUTHOR EMAIL: johnsocv@musc.edu
Cancer Gene Therapy (CANCER GENE THER.) (United States) 2006, 13/3 (281-289)
CODEN: CGTHE ISSN: 0929-1903 eISSN: 1476-5500
PUBLISHER ITEM IDENTIFIER: 7700905
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 39

...cFLIP inhibited TRAIL-mediated killing in trichostatin A pretreated cells, indicating that downregulation of this antiapoptotic protein is required for sensitization. Therefore, trichostatin A can enhance the efficacy of AdTRAIL by...
MEDICAL DESCRIPTORS:
adenovirus vector ; aged; apoptosis; article; bystander effect ; cancer cell; cancer chemotherapy; cell killing; cell surface; controlled study; correlation analysis; down regulation; drug...

12/3,K/4 (Item 2 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2007 Elsevier B.V. All rts. reserv.

13703778 EMBASE No: 2004392462
Multicellular tumor spheroids in gene therapy and oncolytic virus therapy
Lamfers M.L.M.; Hemminki A.
A. Hemminki, University of Helsinki, Department of Oncology, Rational Drug Design Program, PO Box 63, Helsinki 00014 Finland
AUTHOR EMAIL: akseli.hemminki@helsinki.fi
Current Opinion in Molecular Therapeutics (CURR. OPIN. MOL. THER.) (United Kingdom) 2004, 6/4 (403-411)
CODEN: CUOTF ISSN: 1464-8431
DOCUMENT TYPE: Journal ; Review
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 95

DRUG DESCRIPTORS:
protein p35 --pharmaceutics--pr; protein p35 --pharmacology--pd; cisplatin; (3 iodobenzyl)guanidine i 131; noradrenalin transporter --pharmacology--pd; sodium iodide symporter...
MEDICAL DESCRIPTORS:
multicellular spheroid; virus replication; tumor cell; cell viability; cell type; coculture; retrovirus vector ; cancer cell culture; lung non small cell cancer; radiosensitivity; bystander effect ; cancer inhibition; nucleic acid probe; cancer genetics; gene transfer; glioma; meningioma; virus gene; genetic transfection; virus cell interaction; solid tumor; herpesvirus vector ; ovary cancer; mathematical model; tumor suppressor gene; human; nonhuman; review
MEDICAL TERMS (UNCONTROLLED): newcastle disease virus vector ; Vesicular stomatitis virus vector ; polio virus vector ; reovirus vector

12/3,K/5 (Item 3 from file: 73)
DIALOG(R)File 73:EMBASE
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13482140 EMBASE No: 2005520493

Unique aspects of mda-7/IL-24 antitumor bystander activity: Establishing a role for secretion of MDA-7/IL-24 protein by normal cells

Su Z.; Emdad L.; Sauane M.; Lebedeva I.V.; Sarkar D.; Gupta P.; James C.D.; Randolph A.; Valerie K.; Walter M.R.; Dent P.; Fisher P.B.
P.B. Fisher, Department of Pathology, Columbia University Medical Center, College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032 United States
AUTHOR EMAIL: pbf1@columbia.edu
Oncogene (ONCOGENE) (United Kingdom) 17 NOV 2005, 24/51 (7552-7566)
CODEN: ONCNE ISSN: 0950-9232 eISSN: 1476-5594
PUBLISHER ITEM IDENTIFIER: 1208911
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 58

...investigated the contribution of mda-7/IL-24 secreted by normal cells in mediating this ' bystander effect ', and document that normal cells induced to produce mda-7/IL-24 following infection with...

...7/IL-24 or radiation-sensitive cancer cells, but also in tumor cells overexpressing the antiapoptotic proteins bcl-2 or bcl-xSUBL and displaying resistance to either treatment alone. The present...
MEDICAL DESCRIPTORS:
...growth inhibition; apoptosis; radiosensitization; cell activity; virus replication; viral gene therapy; validation process; pancreas tumor; bystander effect ; cell secretion; anchorage independent growth; cell invasion; cell survival; radiosensitivity; cancer cell; protein expression; cancer resistance; drug targeting; metastasis--complication--co; cytokine release; protein function; adenovirus vector ; virus recombinant; cancer invasion; human; male; female; controlled study; human cell; article; priority journal
?

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Set     Items   Description
S1       6096   (PROLONG OR PROLONGATION OR ENHANCE OR ENHANCEMENT OR ENHA-
            NCED) (S) (TRANSGENE AND EXPRESSION)
S2         50   S1 AND (ANTIAPOPTOTIC OR BCL-2 OR P35)
S3         12   S2 AND (CANCER OR TUMOR OR NEOPLASTIC)
S4          9   RD  (unique items)
S5         38   S2 NOT S3
S6         25   RD  (unique items)
S7         17   S6 NOT PY>2002
S8          3   (ENHANCED (W) BYSTANDER) (S) (ANTIAPOPTOTIC OR P35 OR BCL--
             2)
S9          1   RD  (unique items)
S10        28   (BYSTANDER (W) (CYTOTOXICITY OR EFFECT)) AND (ANTIAPOPTOTIC
               OR P35 OR BCL-2)
S11         7   S10 AND (VECTOR OR GDEPT)
S12         5   RD  (unique items)
?

S (COEXPRESSION) (S) (P35)
           27510  COEXPRESSION
            6124  P35
     S13     105  (COEXPRESSION) (S) (P35)
?

S S13 AND (VECTOR OR (GENE (W) TRANSFER))
             105  S13
```

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          356532  VECTOR
         3253203  GENE
          698180  TRANSFER
           90034  GENE(W)TRANSFER
    S14        9  S13 AND (VECTOR OR (GENE (W) TRANSFER))
?

RD
     S15       4  RD  (unique items)
?

T S15/3,K/ALL
```

15/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)
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14720249 PMID: 14647920

The tumor-selective viral protein apoptin effectively kills human biliary tract cancer cells.

Pietersen Alexandra M; Rutjes Saskia A; van Tongeren Joost; Vogels Ronald ; Wesseling John G; Noteborn Mathieu H M
Department of Molecular Cell Biology, Leiden University Medical Center, P.O. Box 9503, 2300 RA Leiden, The Netherlands.

Journal of molecular medicine (Berlin, Germany) (Germany) Jan 2004, 82 (1) p56-63, ISSN 0946-2716--Print Journal Code: 9504370
Publishing Model Print-Electronic
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... the transforming growth factor beta signaling pathway. In vitro delivery of apoptin by an adenoviral vector completely eradicated cholangiocarcinoma cells. Moreover, coexpression of the broad-spectrum caspase inhibitor p35 with apoptin only delayed the induced cell death. Changes in nuclear morphology still occurred early...

15/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155:MEDLINE(R)
(c) format only 2007 Dialog. All rts. reserv.

13524931 PMID: 11779403

Enhancement of Fas ligand-induced inhibition of neointimal formation in rabbit femoral and iliac arteries by coexpression of p35.

Luo Z; Garron T; Palasis M; Lu H; Belanger A J; Scaria A; Vincent K A; Date T; Akita G Y; Cheng S H; Barry J; Gregory R J; Jiang C
Genzyme Corporation, 31 New York Avenue, Framingham, MA 01701, USA.

Human gene therapy (United States) Dec 10 2001, 12 (18) p2191-202, ISSN 1043-0342--Print Journal Code: 9008950
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... of Fas ligand-induced inhibition of neointimal formation in rabbit femoral and iliac arteries by coexpression of p35 .
Adenovirus-mediated gene transfer of Fas ligand (FasL) inhibits

neointimal formation in balloon-injured rat carotid arteries. Vascular smooth muscle (VSM) cells coexpressing murine FasL and p35 , a baculovirus gene that inhibits caspase activity, are not susceptible to FasL-mediated apoptosis in vitro but are capable of inducing apoptosis of VSM cells that do not express p35 . We reasoned that coexpression of p35 in FasL-transduced VSM cells in vivo would promote their survival, enhance FasL-induced apoptosis...

... a greater inhibition of neointimal formation. In balloon-injured rabbit femoral arteries, either Ad2/FasL/ p35 or Ad2/FasL was infused into the injured site and withdrawn 20 min later. Both...

... 05) of the neointima-to-media ratio when assessed 14 days later. However, Ad2/FasL/ p35 exhibited a significantly greater inhibition of neointimal formation than Ad2/FasL. In a more clinically...

... a period of 2 min, using a porous infusion balloon catheter. Twenty-eight days after gene transfer angiographic and histologic assessments indicated a significant ($p < 0.05$) inhibition of iliac artery lumen stenosis and neointimal formation by Ad2/FasL/ p35 (5 x 10(11) particles per artery). The extent of inhibition was comparable to that achieved with Ad2/TK, an adenoviral vector encoding thymidine kinase (5 x 10(11) particles per artery) and coadministration of ganciclovir for 7 days. These data suggest that coexpression of p35 in FasL-transduced VSM cells is more potent at inhibiting neointimal formation and as such...
; Adenoviruses, Human; Animals; Balloon Occlusion; Fas Ligand Protein; Femoral Artery--pathology--PA; Gene Expression; Gene Transfer Techniques; Genetic Vectors; Humans; Iliac Artery--pathology--PA; Inhibitor of Apoptosis Proteins; Rabbits; Thymidine Kinase...

15/3,K/3 (Item 3 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2007 Dialog. All rts. reserv.

11651590 PMID: 10923401
[The construction and application of adenovirus vector coexpressing the heterodimer of human IL-12]
Zhang W; Cao X
Department of Immunology, Second Military Medical University, Shanghai.
Zhonghua yi xue za zhi (CHINA) Jan 1998, 78 (1) p33-6, ISSN 0376-2491--Print Journal Code: 7511141
Publishing Model Print
Document type: English Abstract; Journal Article; Research Support, Non-U.S. Gov't
Languages: CHINESE
Main Citation Owner: NLM
Record type: MEDLINE; Completed

[The construction and application of adenovirus vector coexpressing the heterodimer of human IL-12]
OBJECTIVE: To construct the recombinant adenovirus vector co-expressing the heterodimer of human interkeukin-12. METHODS: The full-length cDNA encoding human IL-12 subunits p40 or p35 was cloned by RT-PCR separately. The cDNA was ligated with encephalomyocarditis internal ribosome entry site (IRES), placed under the control of CMV promoter, and inserted into E1-substituted adenovirus vector pAx1cw to produce the bicistronic coexpression vector . Subsequently, the hIL-12 recombinant adenovirus vector was cotransfected into 293 cells together with EcoT22I-digested Ad5 DNA-TPC, and the replication...

... vitro proliferation and IFN-gamma production of human PMNC. CONCLUSION: Prepared hIL-12 recombinant adenovirus vector can express biologically active hIL-12 and can be potentially used in cancer gene therapy.

15/3,K/4 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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15108881 BIOSIS NO.: 199900368541
Oligomerized Ced-4 kills budding yeast through a caspase-independent mechanism
AUTHOR: Tao Weikang; Walke Daniel W; Morgan James I (Reprint)
AUTHOR ADDRESS: Department of Developmental Neurobiology, St. Jude Children's Research Hospital, 332 North Lauderdale Street, Memphis, TN, 38105-2794, USA**USA
JOURNAL: Biochemical and Biophysical Research Communications 260 (3): p 799-805 July 14, 1999 1999
MEDIUM: print
ISSN: 0006-291X
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: and Ced-4 were lethal when expressed alone, revealing an intrinsic Ced-4 killing activity. Coexpression of Ced-9 blocked Ced-3- and Ced-4-induced killing, showing Ced-9 can...

...the action of both proteins. Ced-3- but not Ced-4-toxicity was attenuated by coexpression of the caspase inhibitors, CrmA and p35 . Thus, besides its Ced-3- and Ced-9-dependent action in C. elegans, Ced-4 ...
DESCRIPTORS:
...ORGANISMS: expression vector
?

Set	Items	Description
S1	6096	(PROLONG OR PROLONGATION OR ENHANCE OR ENHANCEMENT OR ENHANCED) (S) (TRANSGENE AND EXPRESSION)
S2	50	S1 AND (ANTIAPOPTOTIC OR BCL-2 OR P35)
S3	12	S2 AND (CANCER OR TUMOR OR NEOPLASTIC)
S4	9	RD (unique items)
S5	38	S2 NOT S3
S6	25	RD (unique items)
S7	17	S6 NOT PY>2002
S8	3	(ENHANCED (W) BYSTANDER) (S) (ANTIAPOPTOTIC OR P35 OR BCL--2)
S9	1	RD (unique items)
S10	28	(BYSTANDER (W) (CYTOTOXICITY OR EFFECT)) AND (ANTIAPOPTOTIC OR P35 OR BCL-2)
S11	7	S10 AND (VECTOR OR GDEPT)
S12	5	RD (unique items)
S13	105	(COEXPRESSION) (S) (P35)
S14	9	S13 AND (VECTOR OR (GENE (W) TRANSFER))
S15	4	RD (unique items)

?

COST

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           $4.49    1.321 DialUnits File155
              $2.86  13 Type(s) in Format  3
           $2.86  13 Types
     $7.35  Estimated cost File155
           $1.11    0.353 DialUnits File159
     $1.11  Estimated cost File159
          $10.65    1.775 DialUnits File5
             $36.80  16 Type(s) in Format  3
          $36.80  16 Types
    $47.45  Estimated cost File5
          $17.76    1.492 DialUnits File73
             $23.10  7 Type(s) in Format  3
          $23.10  7 Types
    $40.86  Estimated cost File73
           OneSearch, 4 files,  4.942 DialUnits FileOS
     $2.93  INTERNET
    $99.70  Estimated cost this search
   $100.72  Estimated total session cost   5.219 DialUnits
?
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